

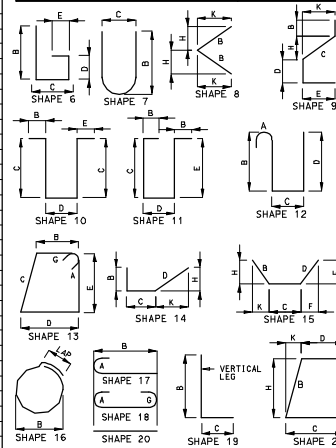
BILL OF REINFORCING STEEL

[illegible]

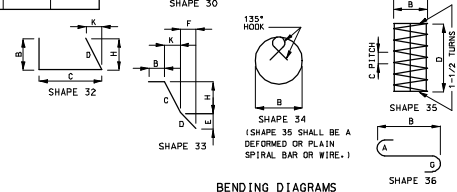
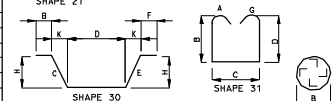
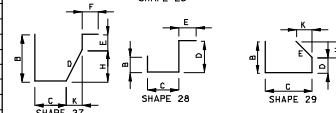
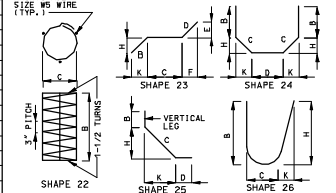
BILL OF REINFORCING STEEL

[illegible]

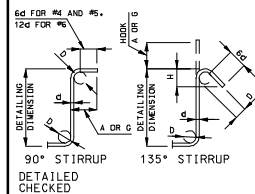
ROUTE	STATE MO	DISTRICT	SHEET NO.	
JOB NO.				
CONTRACT ID				
PROJECT NO.				
COUNTY				
				DATE



SPOT WELD
AASHTO M32
SIZE #5 WIRE
(TYP.)

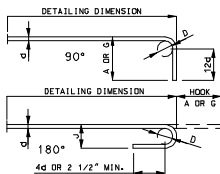


BENDING DIAGRAMS



STIRRUP HOOK DIMENSIONS				
GRADES 40 - 50 - 60 KSI				
BAR SIZE	D (IN.)	90° HOOK HOOK A OR G	135° HOOK HOOK A OR G	APPROX. H
#4	2"	4 1/2"	4 1/2"	3"
#5	2 1/2"	6"	5 1/2"	3 3/4"
#6	4 1/2"	12"	8"	4 1/2"

NOTE: UNLESS OTHERWISE NOTED DIAMETER
"D" IS THE SAME FOR ALL BENDS AND HOOKS
ON A BAR.



NOTE: THIS DRAWING IS NOT TO SCALE. FOLLOW DIMENSIONS.

END HOOK DIMENSIONS					
BAR SIZE	D (1/4")	ALL GRADES			
		180° HOOKS		90° HOOKS	
		A OR G	J	A OR G	J
#3	2 1/4"	5"	3"	6"	6"
#4	3"	6"	4"	8"	8"
#5	3 3/4"	7"	5"	10"	10"
#6	4 1/2"	8"	6"	12"	12"
#7	5 1/4"	10"	7"	14"	14"
#8	6"	11"	8"	16"	16"
#9	9 1/2"	15"	11 3/4"	19"	19"
#10	10 3/4"	17"	13 1/4"	22"	22"
#11	12"	19"	14 3/4"	24"	24"
#14	18 1/4"	2'-3"	21 3/4"	2'-7"	2'-7"

TWO ADDITIONAL

ARE INCLUDED IN THE BAR BILL FOR TESTING.

NOTE:
ALL STANDARD HOOKS AND BENDS OTHER THAN 180 DEGREE ARE TO BE BENT WITH SAME
PROCEDURE AS FOR 90 DEGREE STANDARD HOOKS.
HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH THE PROCEDURES AS SHOWN ON THIS SHEET.
E = EPOXY COATED REINFORCEMENT.

= STRIP;
 Y = BAR IS INCLUDED IN SUBSTRUCTURE QUANTITIES.
 Y = BAR DIMENSIONS VARY IN EQUAL INCREMENTS BETWEEN DIMENSIONS SHOWN ON THIS LINE
 AND THE FOLLOWING LINE.
 NO. EA. = NUMBER OF BARS OF EACH LENGTH.
 NOMINAL LENGTHS ARE BASED ON OUT TO OUT DIMENSIONS SHOWN IN BENDING DIAGRAMS AND ARE LISTED
 FOR FABRICATORS USE. (NEAREST INCH)
 CENTERLINE LENGTH ASSURED ALONG CENTERLINE BAR TO THE NEAREST INCH.
 PAYMENTS ARE BASED ON ACTUAL LENGTHS.
 FOUR ANGLE OR CHANNEL SPACERS ARE PROVIDED FOR EACH COLUMN SPIRAL. SPACERS ARE TO BE PLACED
 ON ONE OF THE SPICES OF EACH COLUMN. THE LENGTH OF COLUMN SPIRALS DO NOT INCLUDE SPICES OR SPACERS
 REINFORCING STEEL (GRADE 60) FY = 60,000 PSI.